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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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04/08/2008

NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116 EXAMINER

NGUYEN, THANH NHAN P

ART UNIT PAPER NUMBER

2871

DATE MAILED: 04/08/2008

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I	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/708,641	03/17/2004	Bing-Jei Liao	HMOP0008USA	2640

TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY PANEL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/08/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further of indicated unless correcte maintenance fee notificat	correspondence including below or directed oth ions	g the Patent, advance of erwise in Block 1, by (a	rders and notification of many specifying a new corres	paintenance fees will be condence address; and	e mailed to the current for (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
	INCE ADDRESS (Note: Use Blo	ock 1 for any change of address)	Fee(	s) Transmittal. This cer	tificate cannot be used t er, such as an assignme	or domestic mailings of the for any other accompanying ent or formal drawing, must
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NORTH AMER P.O. BOX 506 MERRIFIELD, V	RICA INTELLEC VA 22116	TUAL PROPERT	TY CORPORATION State addr trans	by certify that this Fe es Postal Service with s essed to the Mail Sto mitted to the USPTO (	e(s) Transmittal is being ufficient postage for fir p ISSUE FEE address 571) 273-2885, on the d	illission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATT	ORNEY DOCKET NO.	CONFIRMATION NO.
10/708,641	03/17/2004	•	Bing-Jei Liao		HMOP0008USA	2640
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EXAMI	INER	ART UNIT	CLASS-SUBCLASS			
NGUYEN, THA	ANH NHAN P	2871	349-153000			
"Fee Address" indi PTO/SB/47; Rev 03-0. Number is required.  3. ASSIGNEE NAME AN PLEASE NOTE: Unlo	ess an assignee is identi n in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON 'fied below, no assignee	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoo listed, no name will be THE PATENT (print or typ data will appear on the patent autous (B) RESIDENCE: (CITY	ely, e firm (having as a mengent) and the names of meys or agents. If no naprinted.  e) etent. If an assignee is assignment.	onber a 2	ocument has been filed for
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☐ Advance Order - #	of Copies		overpayment, to Depos	authorized to charge the sit Account Number	e required fee(s), any de (enclose a	n extra copy of this form).
_ 0	us (from status indicated SMALL ENTITY statu		☐ b. Applicant is no long	er claiming SMALL E	NT1TY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	l Publication Fee (if requecords of the United Sta	nired) will not be accepte tes Patent and Trademark	ed from anyone other than the Office.	ne applicant; a registere	d attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date		
Typed or printed name						
This collection of informan application. Confident submitting the completed his form and/or suggestions 1450. Alexandria. Vi	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this buringina 22313-1450. DO	FR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or re 1.14. This collection is esti y depending upon the indiv ie Chief Information Office COMPLETED FORMS TO	etain a benefit by the pumated to take 12 minus dual case. Any comme r, U.S. Patent and Trad DTHIS ADDRESS. SE	ablic which is to file (and test to complete, includir tents on the amount of ti- temark Office, U.S. Dep ND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			NGUYEN, THANH NHAN P		
P.O. BOX 506			ART UNIT	PAPER NUMBER	
MERRIFIELD, VA 22116			2871		
			DATE MAILED: 04/08/2008		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 30 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 30 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	A	A
	Application No.	Applicant(s)
Nation of Allowability	10/708,641	LIAO, BING-JEI
Notice of Allowability	Examiner	Art Unit
	THANH-NHAN P. NGUYEN	2871
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. <b>THIS</b>
1. This communication is responsive to 3/12/08.		
2. X The allowed claim(s) is/are <u>1-10,15-19,22-28 and 31-37</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents</li> </ul>	e been received. e been received in Application No	
_ ,	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application.  itted. Note the attached EXAMINER	R'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		-948) attached
1)  hereto or 2)  to Paper No./Mail Date	· ·	,
(b) ☐ including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	s Amendment / Comment or in the 0	ngs in the front (not the back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL	must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5.	• •
	Paper No./Mail Da	te
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amend	ment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statem 9. □ Other	ent of Reasons for Allowance

### **DETAILED ACTION**

## Allowable Subject Matter

Claims 1-10,15-19,22-28 and 31-37\_are allowed.

### Reasons for Allowance

Claims 1-10,15-19,22-28 and 31-37\_are allowed since there is no prior art of record that teaches or suggests a liquid crystal display panel comprising a relationship of various elements as claimed with the specific allowable subject matter cited in the following claims:

Claims 1, 6 and 15:

- a sealant positioned on the second substrate and surrounding the active region
   for adhering the second substrate to the first substrate
- a spacer wall positioned on the second substrate and between the sealant and the active region, the spacer wall having at least one liquid crystal injected opening and at least one spacer block positioned near the liquid crystal injected opening
- wherein the spacer wall supports the first substrate and prevents the liquid crystal layer from being contaminated by the sealant, and the spacer block prevents the sealant from contaminating the liquid crystal layer

Claims 2-5, 22-25 and 35-37 are allowed since they depend on allowed claim 1.

Claims 7-10 and 26-28 are allowed since they depend on allowed claim 6.

Claims 16-19 and 31-34 are allowed since they depend on allowed claim 15.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kim et al (US 2003/0103185) disclose a liquid crystal display panel and method for fabricating thereof comprising a column spacer in a pixel region between the substrates, a dummy column spacer formed in a dummy region between the substrates, the dummy column spacer having an opened portion in at least one of corner regions, a sealant formed outside the dummy column spacer between the substrates.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P. Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Application/Control Number: 10/708,641 Page 4

Art Unit: 2871

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

-- March 31, 2008 (Nancy) Thanh-Nhan P Nguyen Examiner Art Unit 2871

/David Nelms/

Supervisory Patent Examiner, Art Unit 2871

Business Center (EBC) at 866-217-9197 (toll-free).